

Applicant : Ricardo Azpiroz et al.
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Attorney's Docket No.: 11696-070002

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1.-16. (Cancelled).

17. (Currently Amended) A method of modulating a DWF4 polypeptide comprising:

(a) providing a host cell, wherein said host cell comprises a recombinant vector, said recombinant vector comprising:

(i) an isolated ~~dwf4~~ polynucleotide, wherein said isolated ~~dwf4~~ polynucleotide comprises a sequence having at least ~~50%~~ 85% identity to a complement of SEQ ID NO:1 ~~[[,]]~~ and ~~complements and reverse complements segments~~ thereof; and

(ii) a control element operably linked to said isolated ~~dwf4~~ polynucleotide, whereby a ~~coding sequence within~~ said isolated ~~dwf4~~ polynucleotide can be transcribed and ~~translated in said host cell~~; and

(b) culturing said host cell under conditions whereby said isolated ~~dwf4~~ polynucleotide is transcribed, ~~wherein~~ whereby expression of ~~dwf4~~ said DWF4 polypeptide is inhibited.

18.-35. (Cancelled).

36. (Currently Amended) A method for producing a transgenic plant having an altered phenotype relative to a corresponding wild-type plant comprising:

introducing an isolated ~~dwf4~~ polynucleotide into a plant cell, wherein said isolated ~~dwf4~~ polynucleotide comprises a sequence having at least ~~50%~~ 85% identity to a complement of SEQ ID NO:1 ~~[[,]]~~ and ~~complements and reverse complements segments~~ thereof; and

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producing a transgenic plant from said plant cell, said transgenic plant having an altered phenotype relative to the wild-type plant, wherein the isolated ~~dwf4~~ polynucleotide inhibits expression of ~~dwf4~~ said DWF4 polypeptide.

37. (Currently Amended) A method for producing a transgenic plant having an altered phenotype relative to a corresponding wild-type plant comprising:

introducing first and second isolated ~~dwf4~~ polynucleotides into a plant cell, wherein said first and second isolated ~~dwf4~~ polynucleotides independently comprise a sequence having at least ~~50%~~ 85% identity to a complement of SEQ ID NO:1 ~~[[,]]~~ and ~~complements and reverse complements segments~~ thereof; said first and second isolated ~~dwf4~~ polynucleotides operably linked to at least first and second tissue-specific promoters, wherein said first isolated ~~dwf4~~ polynucleotide is overexpressed and wherein said second isolated ~~dwf4~~ polynucleotide inhibits expression of ~~dwf4~~ said DWF4 polypeptide; and

producing a transgenic plant from said plant cell, said transgenic plant having an altered phenotype relative to the wild-type plant.

38.-57. (Cancelled).

58. (New) The method of claim 17, wherein said sequence having at least 85% sequence identity to a complement of SEQ ID NO:1 is at least 100 nucleotides long.

59. (New) The method of claim 58, wherein said sequence having at least 85% sequence identity to a complement of SEQ ID NO:1 is at least 200 nucleotides long.

60. (New) The method of claim 59, wherein said sequence having at least 85% sequence identity to a complement of SEQ ID NO:1 is at least 500 nucleotides long.

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61. (New) The method of claim 17, wherein said isolated polynucleotide comprises a sequence having at least 90% identity to a complement of SEQ ID:1.
62. (New) (New) The method of claim 61, wherein said isolated polynucleotide comprises a sequence having at least 95% identity to a complement of SEQ ID:1.
63. (New) The method of claim 62, wherein said isolated polynucleotide comprises a sequence having at least 98% identity to a complement of SEQ ID:1.
64. (New) The method of claim 36, wherein said sequence having at least 85% sequence identity to a complement of SEQ ID NO:1 is at least 100 nucleotides long.
65. (New) The method of claim 64, wherein said sequence having at least 85% sequence identity to a complement of SEQ ID NO:1 is at least 200 nucleotides long.
66. (New) The method of claim 65, wherein said sequence having at least 85% sequence identity to a complement of SEQ ID NO:1 is at least 500 nucleotides long.
67. (New) The method of claim 36, wherein said isolated polynucleotide comprises a sequence having at least 90% identity to a complement of SEQ ID:1.
68. (New) (New) The method of claim 67, wherein said isolated polynucleotide comprises a sequence having at least 95% identity to a complement of SEQ ID:1.
69. (New) The method of claim 68, wherein said isolated polynucleotide comprises a sequence having at least 98% identity to a complement of SEQ ID:1.

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70. (New) The method of claim 37, wherein said sequence having at least 85% sequence identity to a complement of SEQ ID NO:1 is at least 100 nucleotides long.

71. (New) The method of claim 70, wherein said sequence having at least 85% sequence identity to a complement of SEQ ID NO:1 is at least 200 nucleotides long.

72. (New) The method of claim 71, wherein said sequence having at least 85% sequence identity to a complement of SEQ ID NO:1 is at least 500 nucleotides long.

73. (New) The method of claim 37, wherein said isolated polynucleotide comprises a sequence having at least 90% identity to a complement of SEQ ID:1.

74. (New) (New) The method of claim 73, wherein said isolated polynucleotide comprises a sequence having at least 95% identity to a complement of SEQ ID:1.

75. (New) The method of claim 74, wherein said isolated polynucleotide comprises a sequence having at least 98% identity to a complement of SEQ ID:1.

76. (New) The method of claim 17, wherein said control element is a tissue-specific promoter.

77. (New) The method of claim 17, wherein said control element directs expression in the vegetative tissue of a plant.

78. (New) The method of claim 65, wherein said vegetative tissue is root tissue.

79. (New) The method of claim 65, wherein said vegetative tissue is a shoot tissue.

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80. (New) The method of claim 65, wherein said vegetative tissue is leaf tissue.